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CHEMISTRY.

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Ten Guineas *were this Session voted to* Mr. **Charles Wilson**, *No.* 6, *Worcester Street, near Union-Hall, Borough for a Method of* **Curing Damp Walls**, *by the Application of a* **Composition** *of his Invention thereon.*

The following Communications were received from him, and Specimens of the Composition may be seen in the Society's Repository.

SIR,

I beg leave to lay before the Society of Arts, &c. a cement, which, I trust, will be found of great utility in curing damp walls, in flooring damp kitchens, and for various other purposes, where the prevention of wet is necessary.

This cement when put in water will suffer neither an increase nor diminution in its weight: and it has the peculiar advantage of joining Portland-stone, or marble, so as to make them as durable as they were prior to the fracture.

I have the honour to be,
Your very humble servant,
CHARLES WILSON.

No. 6, *Worcester Street, Feb* 4, 1805.
To Dr. C. Taylor.

Receipt for making the Cement.

Boil two quarts of tar with two ounces of kitchen grease, for a quarter of an hour, in an iron-pot. Add some

some of this tar to a mixture of slaked lime, and powdered glass, which have passed through a flour sieve, and been dried completely over the fire in an iron-pot; in the proportion of two parts of lime, and one of glass, till the mixture becomes of the consistence of thin plaster.

The cement must be used immediately after being mixed, and therefore it is proper not to mix more of it at a time than will coat one square foot of wall, since it quickly becomes too hard for use, and continues to increase its hardness for three weeks. Great care must also be taken to prevent any moisture from mixing with the cement.

For a wall which is merely damp, it will be sufficient to lay on one coating of the cement, about one-eighth of an inch thick ; but should the wall be more than damp, or wet, it will be necessary to coat it a second time.

Plaster, made of lime, hair, and plaster of Paris, may be afterwards laid on the cement.

Mrs. Ann Kemmish, King Street, Borough; Mr. Boone, Gregory Place ; and Mr. Thos. Cannadine, Hook's Gardens, Tooley Street, have certified that Mr. Wilson's cement has been used with effect, on damp walls belonging to them.